WEST Search History

Hide Items Restore Clear Cancel

DATE: Wednesday, September 12, 2007

Hide?	Set Nam	<u>e Query</u>	Hit Count
	DB=PC	GPB,USPT; PLUR=YES; OP=AD	J
Γ	L8	L6 and crosslink\$.ab.	6
	L7	L6 and scoliosis.ab.	1
	L6	L3 and crosslink\$	244
Γ.	L5	L3 and (heat.ab. or thermal.ab.)	33
Γ	L4	L3 and (heat or thermal)	598
Γ	L3	scoliosis	1907
Γ	L2	L1 and scoliosis	10
Γ	L1	607/43.icls. or 607/43.ccls.	42

END OF SEARCH HISTORY

	FILE	'REGISTRY' ENTERED AT 13:45:16 ON 12 SEP 2007 EXP PROANTHOCYANIDIN/CN EXP GENIPIN/CN
L1		1 S E3
	FILE	'STNGUIDE' ENTERED AT 13:45:59 ON 12 SEP 2007
	FILE	'HCAPLUS' ENTERED AT 13:47:00 ON 12 SEP 2007
L2		289 S L1
L3		1849 S PROANTHOCYANIDIN
L4		24757 S (TIME OR DELAYED OR CONTROLLED) (W) RELEASE
L5		13 S (L2 OR L3) AND (L4)
L6		3 S L5 AND (AY<2002 OR PY<2002 OR PRY<2002)
	FILE	'STNGUIDE' ENTERED AT 13:47:08 ON 12 SEP 2007
	FILE	'HCAPLUS' ENTERED AT 13:47:17 ON 12 SEP 2007
	FILE	'STNGUIDE' ENTERED AT 13:47:18 ON 12 SEP 2007

.

=> file hcaplus
COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE TOTAL ENTRY SESSION 0.42 0.42

FILE 'HCAPLUS' ENTERED AT 09:32:33 ON 12 SEP 2007 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE COVERS 1907 - 12 Sep 2007 VOL 147 ISS 12 FILE LAST UPDATED: 11 Sep 2007 (20070911/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s scoliosis

Li 440 SCOLIOSIS

=> s (mechanical(w)(strength or stability))

336667 MECHANICAL 913794 STRENGTH 711235 STABILITY

L2 8266 (MECHANICAL(W) (STRENGTH OR STABILITY))

=> s crosslink?

L3 286673 CROSSLINK?

=> s 11 and 12

L4 1 L1 AND L2

=> s 11 and 13

L5 9 L1 AND L3

=> s 11 and 12 and 13

L6 0 L1 AND L2 AND L3

=> file stnguide

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION

FULL ESTIMATED COST 2.60 3.02

FILE 'STNGUIDE' ENTERED AT 09:32:40 ON 12 SEP 2007

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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Sep 7, 2007 (20070907/UP).

=> d 14 ti abs bib
YOU HAVE REQUESTED DATA FROM FILE 'HCAPLUS' - CONTINUE? (Y)/N:y

- L4 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI Pinealectomy induces malformation of the spine and reduces the mechanical strength of the vertebrae in Atlantic salmon, Salmo salar
- This study describes the long-term effects of surgical ablation of the AB pineal gland on the spine of 3-yr-old Atlantic salmon (Salmo salar) with a mean weight of 3.2 kg. Radiog. examns. showed that 82% of the pinealectomized fish developed marked lateral (scoliosis) and dorso-ventral spinal curvatures. The proportions of the individual vertebral bodies and their mech. properties were also altered. The stiffness, yield limit and resilience of the vertebral bodies, as measured by compression in the craniocaudal direction, were significantly lower in the pinealectomized than in the sham-pinealectomized group. Calcium, phosphorus and total mineral content of the vertebral bodies were also significantly lower in the pinealectomized fish, while these parameters were similar in scales in the two groups. Alterations of the spinal curve accompanied by changes in the proportions, mech. strength and mineral content of the vertebral bodies of the pinealectomized salmon indicate that melatonin has several functions related to vertebral bone growth. the lesions found in salmon are similar to the spinal malformations observed in avian species and mammals after pinealectomy, this study strengthens the hypothesis of a phylogenetically conserved function of the pineal gland related to skeletal development.
- AN 2004:160899 HCAPLUS <<LOGINID::20070912>>
- DN 140:372120
- TI Pinealectomy induces malformation of the spine and reduces the mechanical strength of the vertebrae in Atlantic salmon, Salmo salar
- AU Fjelldal, Per Gunnar; Grotmol, Sindre; Kryvi, Harald; Gjerdet, Nils Roar; Taranger, Geir Lasse; Hansen, Tom; Porter, Mark J. R.; Totland, Geir K.
- CS Department of Aquaculture, Institute of Marine Research, Matre Aquaculture Research Station, Matredal, Norway
- SO Journal of Pineal Research (2004), 36(2), 132-139 CODEN: JPRSE9; ISSN: 0742-3098
- PB Blackwell Publishing Ltd.
- DT Journal
- LA English

=> d 15 1-9 ti YOU HAVE REQUESTED DATA FROM FILE 'HCAPLUS' - CONTINUE? (Y)/N:y

- L5 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI Natural collagens crosslinked with non-toxic crosslinking agents to resist progressive spinal deformity
- L5 ANSWER 2 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI Polymer compositions comprising a antifibrotic or an antiinfective agent
- L5 ANSWER 3 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI Method for the treatment of connective tissue diseases

- L5 ANSWER 4 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI Mutations Near Amino End of $\alpha l(I)$ Collagen Cause Combined Osteogenesis Imperfecta/Ehlers-Danlos Syndrome by Interference with N-propeptide Processing
- L5 ANSWER 5 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI Corrosion of spinal implants retrieved from patients with scoliosis
- L5 ANSWER 6 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI Non-toxic crosslinking reagents to resist curve progression in scoliosis and increase disc permeability
- L5 ANSWER 7 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI The kyphoscoliotic type of Ehlers-Danlos syndrome (type VI): differential effects on the hydroxylation of lysine in collagens I and II revealed by analysis of cross-linked telopeptides from urine
- L5 ANSWER 8 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI Collagen crosslinking and cartilage glycosaminoglycan composition in normal and scoliotic chickens
- L5 ANSWER 9 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI Scoliosis in chickens: responsiveness of severity and incidence to dietary copper
- => d 15 1 3 5 6 8 9 ti abs bib
 YOU HAVE REQUESTED DATA FROM FILE 'HCAPLUS' CONTINUE? (Y)/N:y
- L5 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI Natural collagens crosslinked with non-toxic crosslinking agents to resist progressive spinal deformity
- A method of improving the resistance of collagenous tissue to mech. AB degradation in accordance with the present invention comprises the step of contacting at least a portion of a collagenous tissue with an effective amount of a crosslinking reagent. Methods and devices for enhancing the body's own efforts to stabilize disks in scoliotic and other progressively deforming spines by increasing collagen crosslinks This stability enhancement is caused by reducing the bending hysteresis and increasing the elasticity and bending stiffness of progressively deforming spines, by injecting non-toxic crosslinking reagents into the convex side of disks involved in the potential or progressing deformity curve. Alternatively, contact between the tissue and the crosslinking reagent is effected by placement of a time-release delivery system directly into or onto the target tissue. Methods and devices that use crosslinking agents for increasing the permeability of an intervertebral disk, improving fluid flux to the intervertebral disk, and increasing the biol. viability of cells within the intervertebral disk are provided.
- AN 2007:873614 HCAPLUS <<LOGINID::20070912>>
- DN 147:220111
- TI Natural collagens crosslinked with non-toxic crosslinking agents to resist progressive spinal deformity
- IN Hedman, Thomas P.
- PA USA
- SO U.S. Pat. Appl. Publ., 17pp., Cont.-in-part of U.S. Ser. No. 786,861. CODEN: USXXCO
- DT Patent
- LA English
- FAN.CNT 5

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2007183973	A1	20070809	US 2006-346464	20060202
	US 2003049301	A1	20030313	US 2002-230671	20020829
	US 2004253219	A1	20041216	US 2004-786861	20040224
	US 2007196351	A1	20070823	US 2007-712684	20070228
	US 2007202143	A1	20070830	US 2007-726790	20070322
PRAI	US 2001-316287P	P	20010831		
	US 2002-230671	A2	20020829		
	US 2003-498790P	P	20030828	•	
	US 2004-786861	A2	20040224		
	US 2006-346464	A2	20060202		
	US 2007-712684	A2	20070228		
L5	ANSWER 3 OF 9 HCAP	LUS CO	OPYRIGHT 200	7 ACS on STN	
TI	Method for the trea	tment o	of connective	e tissue diseases	
AB	Method is disclosed	for the	ne treatment	of collagen diseases.	The invent
		F +1		of connective ticeue d	icoscoc

- AB Method is disclosed for the treatment of collagen diseases. The invention relates to a method for the treatment of connective tissue diseases associated with weakening or damage of collagen tissue due to disease, injury or mech. stress by the application of a proteoglycan and electromagnetic radiation. The treatment phys. and visually repairs the weakened or damaged tissue in vivo or in vitro and may be used on any animal having and collagen tissue.
- AN 2005:405328 HCAPLUS <<LOGINID::20070912>>
- DN 142:423912
- TI Method for the treatment of connective tissue diseases
- IN Pineau, Mitchell; Birchem, Gerald; Bon, Edwin
- PA Visionary Biomedical, Inc., USA
- SO PCT Int. Appl., 13 pp.
 - CODEN: PIXXD2
- DT Patent
- LA English
- FAN.CNT 1

T. Tarra	CIAI	_																	
	PAT	CENT 1	NO.			KIN)	DATE		i	APPL:	ICAT:	ION I	. O <i>v</i>		DA	ATE		
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PI	WO	2005	0416	62		A1	:	2005	0512	1	WO 2	003-1	US34	775		20	0031	103	
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			CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,	GE,	
			GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KΕ,	KG,	KΡ,	KR,	KΖ,	LC,	LK,	
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	ΑU	2003	2868	32		Al	:	2005	0519		AU 2	003-:	2868	32		20	0031	103	
PRAI	US	2003	-677	237		Α	:	2003	1003										
	WO	2003	-US3	4775		W	:	2003	1103										

- RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L5 ANSWER 5 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI Corrosion of spinal implants retrieved from patients with scoliosis
- AB Spinal implants retrieved from 11 patients with scoliosis were examined All the implants were posterior instrumentation systems made of 316L stainless steel and composed of rods, hooks, and crosslink connectors. Corrosion was classified into grades 0 to 3 based on macroscopic findings of the rod surface at the junction of each hook or crosslink connector. Grade 0 was defined as no sign of corrosion, grade 1 as surface discoloration, grade 2 as superficial metal loss, and grade 3 as severe metal loss. The depths and characteristics of metal loss areas were examined Spinal implants showed more corrosion after

long-term implantation than after short-term implantation. Corrosion was seen on many of the rod junctions (66.2%) after long-term implantation, but there was no difference between the junction at the hook and those at the crosslink connector. It is thought that intergranular corrosion and fretting contributed to the corrosion of implants. The current study demonstrated that corrosion takes place at many of the rod junctions in long-term implantation. The authors recommend removal of the spinal implants after solid bony union.

- AN 2005:297335 HCAPLUS <<LOGINID::20070912>>
- DN 144:198449
- TI Corrosion of spinal implants retrieved from patients with scoliosis
- AU Akazawa, Tsutomu; Minami, Shohei; Takahashi, Kazuhisa; Kotani, Toshiaki; Hanawa, Takao; Moriya, Hideshige
- CS Department of Orthopedic Surgery, Graduate School of Medicine, Chiba University, 1-8-1 Inohana, Chuo-ku, Chiba, 260-8670, Japan
- SO Journal of Orthopaedic Science (2005), 10(2), 200-205 CODEN: JOSCFS; ISSN: 0949-2658
- PB Springer Tokyo
- DT Journal
- LA English
- RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L5 ANSWER 6 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI Non-toxic crosslinking reagents to resist curve progression in scoliosis and increase disc permeability
- A method of improving the resistance of collagenous tissue to mech. AB degradation in accordance with the present invention comprises the step of contacting at least a portion of a collagenous tissue with an effective amount of a crosslinking reagent, i.e., genipin, ribose, threose, and lysyl oxidase. Methods and devices for enhancing the body's own efforts to stabilize disks in scoliotic spines by increasing collagen crosslinks. This stability enhancement is caused by reducing the bending hysteresis and increasing the bending stiffness of scoliotic spines, by injecting non-toxic crosslinking reagents into the convex side of disks involved in the scoliotic curve. Alternatively, contact between the tissue and the crosslinking reagent is affected by placement of a time-release delivery system directly into or onto the target tissue. Methods and devices that use crosslinking agents for increasing the permeability of an intervertebral disk, improving fluid flux to the intervertebral disk, and increasing the biol. viability of cells within the intervertebral disk are provided.
- AN 2004:1080506 HCAPLUS <<LOGINID::20070912>>
- DN 142:62696
- TI Non-toxic crosslinking reagents to resist curve progression in scoliosis and increase disc permeability
- IN Hedman, Thomas P.
- PA University of Southern California, USA
- SO U.S. Pat. Appl. Publ., 15 pp., Cont.-in-part of U.S. Ser. No. 230,671. CODEN: USXXCO
- DT Patent
- LA English
- FAN.CNT 5

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	PAT	TENT	NO.			KINI)	DATE		7	APPL	ICAT:	ION 1	NO.		D	ATE	
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PI	US	2004	2532	19		A1		2004	1216	1	US 2	004-	7868	61		2	0040	224
	US	2003	0493	01		A1		2003	0313	į	US 2	002-	2306	71		2	0020	829
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	CA	2536	415			A1		2005	0310	•	CA 2	004-	2536	415		2	0040	827
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     JP 2007504162
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     US 2007183973
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                                            US 2006-346464
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     US 2007196351
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     US 2007202143
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                                                                    20070322
                                20070830
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     US 2002-230671
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                                20040827
     US 2006-346464
                          A2
                                20060202
     US 2007-712684
                          A2
                                20070228
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- L5 ANSWER 8 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI Collagen crosslinking and cartilage glycosaminoglycan composition in normal and scoliotic chickens
- The amts. of lysine-derived crosslinks in collagens from tendon, AB cartilage, intervertebral disk, and bone and changes in the composition of sternal cartilage glycosaminoglycans were estimated in two lines of chickens, a control-isogenic line and a line that develops scoliosis. the scoliotic line, scoliosis first appears at 3-4 wk and progressively increases in severity and incidence so that 90% of the birds express the lesion by week 10. It was reported previously that cartilage, tendon, and bone collagens from scoliotic birds are more soluble than corresponding collagens from normal birds. Herein, collagen crosslinking and altered proteoglycan metabolism are examined as possible mechanisms for the differences in collagen solubility At 1 wk of age, there were fewer reducible crosslinking amino acids (hydroxylsinonorleucine, dihydroxylysinonorleucine, and lysinonorleucine) in collagens from sternal cartilage and tendon in the scoliotic line than in the isogenic line. However, by week 3 and at weeks 5 or 7 values were similar in both groups. The amts. of hydroxypyridinium in vertebral bone and intervertebral disk collagen were also similar in both groups of birds. Consequently, differences in collagen crosslinking do not appear to be a persistent developmental defect underlying the expression of scoliosis in the model. However, differences were observed in cartilage proteoglycans and glycosaminoglycans from the scoliotic line that were not present in cartilage from the isogenic line. The average mol. weight of the uronide-containing glycosaminoglycans was 30% less in the scoliotic line than in the isogenic line, i.e., 12,000 compared to 18,000. The size distribution of cartilage proteoglycans from the scoliotic line also differed from that of proteoglycans from the isogenic line. An overly sulfated chondroitin also appeared to be a minor component of the glycosaminoglycans in cartilage from the scoliotic line. This chondroitin was not observed in cartilage from the isogenic line of chickens.
- AN 1989:21883 HCAPLUS <<LOGINID::20070912>>
- DN 110:21883
- TI Collagen crosslinking and cartilage glycosaminoglycan composition in normal and scoliotic chickens
- AU Greve, Carl; Opsahl, William; Reiser, Karen; Abbott, Ursula; Kenney, Cristina; Benson, Daniel; Rucker, Robert
- CS Dep. Nutr., Univ. California, Davis, CA, 95616, USA
- SO Biochimica et Biophysica Acta, General Subjects (1988), 967(2), 275-83 CODEN: BBGSB3; ISSN: 0304-4165

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Journal
DT
     English
LΑ
     ANSWER 9 OF 9 HCAPLUS COPYRIGHT 2007 ACS on STN
L5
     Scoliosis in chickens: responsiveness of severity and incidence
TI
     to dietary copper
     The severity and incidence of spinal lesions were manipulated in a line of
AB
     chickens susceptible to scoliosis by varying their dietary
     intake of Cu. A decrease in expression of the lesion was related to
     increased intake of Cu. The change in expression, however, appeared to be
     related only indirectly to the defects in collagen crosslinking,
     maturation, and deposition known to be associated with dietary Cu deficiency.
     Thus, a dietary constituent in the range of normal intakes may act as an
     environmental factor in the expression of scoliosis.
     1984:489373 HCAPLUS <<LOGINID::20070912>>
AN
DN
     101:89373
     Scoliosis in chickens: responsiveness of severity and incidence
ΤI
     to dietary copper
     Opsahl, William; Abbott, Ursula; Kenney, Cristina; Rucker, Robert
Dep. Nutr., Univ. California, David, CA, 95616, USA
ΑU
CS
     Science (Washington, DC, United States) (1984), 225(4660), 440-2
SO
     CODEN: SCIEAS; ISSN: 0036-8075
     Journal
DT
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     English
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     (FILE 'HOME' ENTERED AT 09:31:40 ON 12 SEP 2007)
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L1
            440 S SCOLIOSIS
           8266 S (MECHANICAL(W) (STRENGTH OR STABILITY))
L2
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         286673 S CROSSLINK?
              1 S L1 AND L2
L4
              9 S L1 AND L3
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L6
              0 S L1 AND L2 AND L3
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PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

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                CA/CAplus Indian patent publication number format defined
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NEWS
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NEWS 8 MAY 22 CA/Caplus enhanced with IPC reclassification in Japanese
                 patents
NEWS 9
        JUN 27
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NEWS 10 JUN 29
                STN Express, Version 8.2, now available
NEWS 11 JUN 29
NEWS 12 JUL 02 LEMBASE coverage updated
NEWS 13 JUL 02 LMEDLINE coverage updated
NEWS 14 JUL 02 SCISEARCH enhanced with complete author names
NEWS 15 JUL 02 CHEMCATS accession numbers revised
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NEWS 17 JUL 16 Caplus enhanced with French and German abstracts
NEWS 18 JUL 18 CA/CAplus patent coverage enhanced
NEWS 19 JUL 26 USPATFULL/USPAT2 enhanced with IPC reclassification
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NEWS 22 AUG 06 BEILSTEIN updated with new compounds
NEWS 23 AUG 06 FSTA enhanced with new thesaurus edition
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NEWS EXPRESS 05 SEPTEMBER 2007: CURRENT WINDOWS VERSION IS V8.2,
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              AND CURRENT DISCOVER FILE IS DATED 05 SEPTEMBER 2007.
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FILE 'HOME' ENTERED AT 13:44:25 ON 12 SEP 2007

=> file registry
COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 0.42 0.42

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 13:45:16 ON 12 SEP 2007

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 11 SEP 2007 HIGHEST RN 946658-01-1 DICTIONARY FILE UPDATES: 11 SEP 2007 HIGHEST RN 946658-01-1

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

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=> exp proanthocyanidin/cn
            1
                  PROANSAMYCIN X/CN
                   PROANTHANOL/CN
E2
             1
             0 --> PROANTHOCYANIDIN/CN
E3
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E4
            1
E5
            1
                   PROANTHOCYANIDIN A1/CN
E6
            1
                   PROANTHOCYANIDIN A2/CN
                   PROANTHOCYANIDIN A2 4A-BENZYLTHIOETHER/CN
E7
            1
            1
                   PROANTHOCYANIDIN A4/CN
E8
                   PROANTHOCYANIDIN A5'/CN
            1
E9
                   PROANTHOCYANIDIN A6/CN
E10
E11
                   PROANTHOCYANIDIN A7/CN
                   PROANTHOCYANIDIN B/CN
E12
=> exp genipin/cn
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                   GENIPIC ACID/CN
E3
             1 --> GENIPIN/CN
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E4
E5
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E9
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E10 1 GENIPIN, 1,10-DIDEOXY-7,8-DIHYDRO-/CN

E11 1 GENIPIN, 10-DEOXY-3,4,7,8-TETRAHYDRO-3-METHOXY-, 1-METHYL ET

HER/CN

E12 1 GENIPIN, 10-DEOXY-7,8-DIHYDRO-/CN

=> s E3

L1 1 GENIPIN/CN

=> file stnguide

COST IN U.S. DOLLARS SINCE FILE TOTAL

ENTRY SESSION

FULL ESTIMATED COST 5.40 5.82

FILE 'STNGUIDE' ENTERED AT 13:45:59 ON 12 SEP 2007 USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

FILE CONTAINS CURRENT INFORMATION.

LAST RELOADED: Sep 7, 2007 (20070907/UP).

=> file hcaplus

COST IN U.S. DOLLARS SINCE FILE TOTAL

ENTRY SESSION

FULL ESTIMATED COST 0.12 5.94

FILE 'HCAPLUS' ENTERED AT 13:47:00 ON 12 SEP 2007 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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FILE COVERS 1907 - 12 Sep 2007 VOL 147 ISS 12 FILE LAST UPDATED: 11 Sep 2007 (20070911/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 11

L2 289 L1

=> s proanthocyanidin

L3 1849 PROANTHOCYANIDIN

=> s (time or delayed or controlled) (w) release

2179225 TIME

109751 DELAYED

574192 CONTROLLED

501642 RELEASE

L4 24757 (TIME OR DELAYED OR CONTROLLED) (W) RELEASE

=> s (12 or 13) and (14)

L5 13 (L2 OR L3) AND (L4)

=> s 15 and (AY<2002 or PY<2002 or PRY<2002)

4186617 AY<2002 21899787 PY<2002 3663596 PRY<2002

L6 3 L5 AND (AY<2002 OR PY<2002 OR PRY<2002)

=> file stnguide

COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 2.60 8.54

FULL ESTIMATED COST

FILE 'STNGUIDE' ENTERED AT 13:47:08 ON 12 SEP 2007 USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Sep 7, 2007 (20070907/UP).

=> d 16 1-3 ti abs bib

YOU HAVE REQUESTED DATA FROM FILE 'HCAPLUS' - CONTINUE? (Y) /N:y

- L6 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI Natural collagens crosslinked with non-toxic crosslinking agents to resist progressive spinal deformity
- A method of improving the resistance of collagenous tissue to mech. AB degradation in accordance with the present invention comprises the step of contacting at least a portion of a collagenous tissue with an effective amount of a crosslinking reagent. Methods and devices for enhancing the body's own efforts to stabilize disks in scoliotic and other progressively deforming spines by increasing collagen crosslinks. This stability enhancement is caused by reducing the bending hysteresis and increasing the elasticity and bending stiffness of progressively deforming spines, by injecting non-toxic crosslinking reagents into the convex side of disks involved in the potential or progressing deformity curve. Alternatively, contact between the tissue and the crosslinking reagent is effected by placement of a time-release delivery system directly into or onto the target tissue. Methods and devices that use crosslinking agents for increasing the permeability of an intervertebral disk, improving fluid flux to the intervertebral disk, and increasing the biol.
- AN 2007:873614 HCAPLUS <<LOGINID::20070912>>
- DN 147:220111
- TI Natural collagens crosslinked with non-toxic crosslinking agents to resist progressive spinal deformity
- IN Hedman, Thomas P.
- PA USA
- SO U.S. Pat. Appl. Publ., 17pp., Cont.-in-part of U.S. Ser. No. 786,861. CODEN: USXXCO

viability of cells within the intervertebral disk are provided.

- DT Patent
- LA English

FAN.CNT 5

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2007183973	A1	20070809	US 2006-346464	20060202 <
	US 2003049301	A1	20030313	US 2002-230671	20020829 <

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US 2004253219 A1 20041216 US 2004-786861 20040224 <--
US 2007196351 A1 20070823 US 2007-712684 20070228 <--
US 2007202143 A1 20070830 US 2007-726790 20070322 <--
PRAI US 2001-316287P P 20010831 <--
US 2002-230671 A2 20020829
US 2003-498790P P 20030828
US 2004-786861 A2 20040224
US 2006-346464 A2 20060202
US 2007-712684 A2 20070228
```

- L6 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2007 ACS on STN
- TI Non-toxic crosslinking reagents to resist curve progression in scoliosis and increase disc permeability
- A method of improving the resistance of collagenous tissue to mech. AB degradation in accordance with the present invention comprises the step of contacting at least a portion of a collagenous tissue with an effective amount of a crosslinking reagent, i.e., genipin, ribose, threose, and lysyl oxidase. Methods and devices for enhancing the body's own efforts to stabilize disks in scoliotic spines by increasing collagen crosslinks. This stability enhancement is caused by reducing the bending hysteresis and increasing the bending stiffness of scoliotic spines, by injecting non-toxic crosslinking reagents into the convex side of disks involved in the scoliotic curve. Alternatively, contact between the tissue and the crosslinking reagent is affected by placement of a timerelease delivery system directly into or onto the target tissue. Methods and devices that use crosslinking agents for increasing the permeability of an intervertebral disk, improving fluid flux to the intervertebral disk, and increasing the biol. viability of cells within the intervertebral disk are provided.
- AN 2004:1080506 HCAPLUS <<LOGINID::20070912>>
- DN 142:62696
- TI Non-toxic crosslinking reagents to resist curve progression in scoliosis and increase disc permeability
- IN Hedman, Thomas P.
- PA University of Southern California, USA
- SO U.S. Pat. Appl. Publ., 15 pp., Cont.-in-part of U.S. Ser. No. 230,671. CODEN: USXXCO
- DT Patent
- LA English

FAN.CNT 5

FAN.	PATENT NO.	אַדאַרו רואַדי	APPLICATION NO.	DATE
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ΡI	US 2004253219	A1 20041216	US 2004-786861	20040224 <
	US 2003049301		US 2002-230671	
	-		AU 2004-268628	
			CA 2004-2536415	
			WO 2004-US28039	
			BA, BB, BG, BR, BW, BY,	
			DM, DZ, EC, EE, EG, ES,	
			IN, IS, JP, KE, KG, KP,	
	LK, LR, LS	, LT, LU, LV, MA,	MD, MG, MK, MN, MW, MX,	MZ, NA, NI,
	NO, NZ, OM	, PG, PH, PL, PT,	RO, RU, SC, SD, SE, SG,	SK, SL, SY,
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			EP 2004-782506	
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     WO 2004-US28039
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                                     20060202
     US 2007-712684
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                                     20070228
     ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2007 ACS on STN
L6
     Use of non-toxic crosslinking reagents to improve fatigue resistance and
TI
      reduce mechanical degradation of intervertebral disc and other collagenous
      tissues
     A method of improving the resistance of collagenous tissue to mech.
AB
      degradation in accordance with the present invention comprises the step of
      contacting at least a portion of a collagenous tissue with an effective
     amount of a crosslinking reagent. The crosslinking reagent includes a crosslinking agent such as genipin and/or proanthocyanidin.
      Further, the crosslinking reagent may include a crosslinking agent in a
      carrier medium. The collagenous tissue to be contacted with the
      crosslinking reagent is preferably a portion of an intervertebral disk or
      articular cartilage. The contact between the tissue and the crosslinking
      reagent is effected by injections directly into the select tissue using a
      needle. Alternatively, contact between the tissue and the crosslinking
      reagent is effected by placement of a time-release
      delivery system such as a gel or ointment, or a treated membrane or patch
      directly into or onto the target tissue. Contact may also be effected by,
      for instance, soaking.
      2003:202381 HCAPLUS <<LOGINID::20070912>>
AN
DN
      138:226799
      Use of non-toxic crosslinking reagents to improve fatigue resistance and
TI
      reduce mechanical degradation of intervertebral disc and other collagenous
      tissues
      Hedman, Thomas P.
IN
      University of Southern California, USA
PA
      PCT Int. Appl., 25 pp.
SO
      CODEN: PIXXD2
DT
      Patent
LA
      English
FAN.CNT 5
                            KIND DATE APPLICATION NO. DATE
      PATENT NO.
     WO 2003020031 A1 20030313 WO 2002-US27677 20020829 <--
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          RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
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      JP 2005501874 T
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      CN 1578624
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                                                  CN 2002-821684
PRAI US 2001-316287P P WO 2002-US27677 W
                                     20010831
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                                     20020829
                THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE.CNT 2
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ALL CITATIONS AVAILABLE IN THE RE FORMAT

	FILE 'HCAPLUS' ENTERED AT 17:29:52 ON 11 SEP 2007
L1	74855 S SCOLIOSIS OR SPINE OR SPINAL OR (NUCLEUS PULPOSIS)
L2	94811 S COLLAGEN OR COLLAGENOUS OR (INVERTEBRATE DISK)
L3	243635 S CROSSLINK OR CROSSLINKING OR GENIPIN OR PROANTHOCYANIDIN OR T
L4	1348 S L1 AND L2
L5	353 S L1 AND L3
L6	86 S L1 AND L2 AND L3
L7	711 S L4 AND (PY<2002 OR AY<2002 OR PRY<2002)
L8	174 S L5 AND (PY<2002 OR AY<2002 OR PRY<2002)
L9	31 S L6 AND (PY<2002 OR AY<2002 OR PRY<2002)

FILE 'STNGUIDE' ENTERED AT 17:30:12 ON 11 SEP 2007

FILE 'HCAPLUS' ENTERED AT 17:30:21 ON 11 SEP 2007

FILE 'STNGUIDE' ENTERED AT 17:30:22 ON 11 SEP 2007

FILE 'HCAPLUS' ENTERED AT 17:33:10 ON 11 SEP 2007

FILE 'STNGUIDE' ENTERED AT 17:33:11 ON 11 SEP 2007